

Abstract Submitted
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Gravitational Tests of Lorentz Symmetry with Atom Interferometers JAY D. TASSON, V. ALAN KOSTELECKY, Indiana University — Lorentz-symmetry violation offers a potential probe for new physics at the Planck scale. At currently accessible energies, these violations are described by the Standard-Model Extension (SME). In this talk I will provide an outline of the SME and discuss new sensitivities to Lorentz violation attainable in atom interferometer experiments, arising from gravitational interactions with atoms.

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